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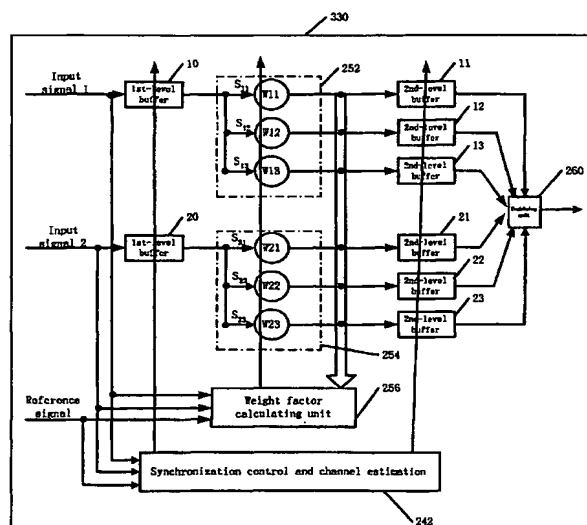
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(54) Title: A 2D RAKE RECEIVER FOR USE IN WIRELESS COMMUNICATION SYSTEMS



(57) Abstract: A 2D Rake receiver is proposed, comprising: a control module, for generating, according to a reference signal and the radio signals received by a plurality of antenna elements, the multipath information about the radio signals; a weight factor calculating unit, for calculating the corresponding weight factors of the received radio signals corresponding to different antenna elements according to the multipath information; a plurality of 1 D Rake receivers, each of which is for receiving radio signals from the corresponding antenna element and weighting the radio signals received by the Rake receiver with the corresponding weight factor; a combining unit, for combining the weighted radio signals outputted from the plurality of 1 D Rake receivers, to output a combined signal.



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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